

THE BOTANICAL MAGAZINE TOKYO

VOL. 87 (1974)

Numbers 1005-1008, Pages 1-345

EDITORIAL BOARD

MASAYUKI KATSUMI, Editor-in-Chief,
International Christian University,
Mitaka, Tokyo 181

NOBORU HARA, Editor,
University of Tokyo, Komaba,
Meguro-ku, Tokyo 153

YOSHIHIKO FUJITA, Editor,
Ocean Research Institute,
University of Tokyo, Nakano-ku,
Tokyo 164

MASAKI FURUYA (*Tokyo*)
HIDEMASA IMASEKI (*Nagoya*)
YOJIRO KIMURA (*Tokyo*)
YOICHI MARUYAMA (*Tokyo*)

SHUN-EI ICHIMURA (*Tokyo*)
MICHIO ITO (*Nagoya*)
TETSUO KOYAMA (*New York*)
TSUNEO TAKEMARU (*Okayama*)

MASASHI TAZAWA (*Osaka*)

THE BOTANICAL SOCIETY OF JAPAN

CONTENTS

THE BOTANICAL MAGAZINE, TOKYO

Vol. 87

No. 1005 (March 1974)

NAKAMURA, H. AND M. KAWAHARA: Effects of Amino Acids on Polysaccharide Synthesis of <i>Escherichia coli</i> K-12 <i>lon</i> ⁺ and <i>lon</i> ⁻ Strains	1
YOSHIDA, T.: On the Systematic Position of <i>Hemineura schmitziana</i> De Toni et Okamura, a Member of the Delesseriaceae, Rhodophyta	11
SOH, W.Y.: Early Ontogeny of Vascular Cambium II. <i>Aucuba japonica</i> and <i>Weigela coraeensis</i>	17
YOSHITAMA, K. AND K. HAYASHI: Concerning the Structure of Cinerarin, a Blue Anthocyanin from Garden Cineraria. Studies on Anthocyanins, LXVI	33
KITAMOTO, Y., T. HORIKOSHI AND Z. KASAI: Growth of Fruit-bodies in <i>Favolus arcularius</i>	41
FUKUDA, Y.: Morphological and Anatomical Studies in <i>Tribulus terrestris</i> I. Phyllotaxis and Branching	51
TAZAKI, K., T. MINAMIKAWA AND S. YOSHIDA: Alicyclic Acid Metabolism in Plants 6. Metabolism of Quinate in the Epicotyls of Pea Seedlings	61
SAKAI, T.: The Absence of ADP-glucose Pyrophosphorylase Activity in the Leaves of <i>Allium</i> and <i>Yucca</i>	69
ISIKAWA, H.: <i>In Vitro</i> Formation of Adventitious Buds and Roots on the Hypocotyl of <i>Cryptomeria japonica</i>	73

No. 1006 (June 1974)

SUZUKI, S. AND K. NISIZAWA: Changes in the Patterns of Phosphatase Isozymes during the Germination of Rice Seed	79
HIROSE, T.: On the Phosphorus Budget of a Perennial Herb <i>Solidago altissima</i> Population	89
SOH, W.Y.: Early Ontogeny of Vascular Cambium III. <i>Robinia pseudo-acacia</i> and <i>Syringa oblata</i>	99
NISHIDA, M.: <i>Oguraxylon</i> , a New Genus Belonging to the Family Taxodiaceae, from the Cretaceous of Hokkaidō	113
ASHIHARA, H., A. KOMAMINE AND M. SHIMOKORIYAMA: Glucose Catabolism during Aging and Differentiation in Hypocotyls of <i>Phaseolus mungo</i> Seedlings	121
TATEOKA, T.: Phytogeographical Studies of <i>Calamagrostis sachalinensis</i> (Gramineae) I. Attributes of Intraspecific Races	133
TATEOKA, T.: Phytogeographical Studies of <i>Calamagrostis sachalinensis</i> (Gramineae) II. Origin and Dispersal	149
SUZUKI, S.: Ultrastructural Development of Plastids in Cherry Peppers during Fruit Ripening	165
USUI, H., M. MAEDA AND M. ITO: High Frequency of Spontaneous Fusion in Protoplasts from Various Plant Tissues	179

No. 1007 (September 1974)

Cell Division

TSUBOI, M. AND N. YANAGISHIMA: Changes in Sporulation Ability during the Vegetative Cell Cycle in <i>Saccharomyces cerevisiae</i>	183
---	-----

NODA, S.: Chiasma Studies in Structural Hybrids IX. Crossing-Over in Pericentric Inversion of <i>Scilla scilloides</i>	195
TERASAKA, O. AND R. TANAKA: Cytological Studies on the Nuclear Differentiation in Microspore Division of Some Angiosperms	209
ITO, M. AND M. MAEDA: Meiotic Division and Fusion of Nuclei in Multinucleate Cells from the Induced Fusion of Meiotic Protoplasts of Liliaceous Plants	219
MASUBUCHI, M.: Early Replicating DNA in Heterochromatin of <i>Plagiochila ovalifolia</i> (Liverworts)	229

TATEOKA, T.: A Cytotaxonomic Study of the <i>Calamagrostis purpurea</i> — <i>langs-dorffii</i> — <i>canadensis</i> Complex in the Lowlands of Hokkaido	237
Ooya, N.: Induction of Apogamy in <i>Equisetum arvense</i>	253
McMILLAN, C.: Photoperiodic Responses of <i>Xanthium strumarium</i> L. (Compositae) Introduced and Indigenous in Eastern Asia	261

No. 1008 (December 1974)

NUMATA, M., I. IKUSIMA AND N. OHGA: Ecological Aspects of Bamboo Flowering. Ecological Studies of Bamboo Forests in Japan, XIII	271
UMEZAKI, I.: Ecological Studies of <i>Sargassum thunbergii</i> (Mertens) O. Kuntze in Maizuru Bay, Japan Sea	285
ITO, N. AND H. TAKADA: Adenine-Dependent Growth of Marine Yeast, <i>Rhodotorula glutinis</i> var. <i>salinaria</i> under Sodium Chloride-Hypertonic Condition	293
KOYAMA, T.: The Genus <i>Fimbristylis</i> (Cyperaceae) in Ceylon	301
RATH, S.P. AND S.N. PATNAIK: A Note on the Cytotaxonomy of East Indian Species of the Genus <i>Fuirena</i> Rottb.	333
NISHI, T.: Requirement of Organic Factors for the Growth of <i>Ephedra</i> Tissues Cultured <i>in Vitro</i>	337
SAKAI, A.: Centriolar Plaque and Spindle Microtubules in the Ascomycete <i>Sordaria humana</i>	341

AUTHOR INDEX

THE BOTANICAL MAGAZINE, TOKYO

Vol. 87

ASHIHARA, H.	121	NUMATA, M.	271
FUKUDA, Y.	51	OHGA, N.	271
HAYASHI, K.	33	OOYA, N.	253
HIROSE, T.	89	PATNAIK, S.N.	333
HORIKOSHI, T.	41	RATH, S.P.	333
IKUSIMA, I.	271	SAKAI, A.	341
ISIKAWA, H.	73	SAKAI, T.	69
ITO, M.	179, 219	SHIMOKORIYAMA, M.	121
ITO, N.	293	SOH, W.Y.	17, 99
KASAI, Z.	41	SUZUKI, SHOHO.	79
KAWAHARA, M.	1	SUZUKI, SUECHIKA.	165
KITAMOTO, Y.	41	TAKADA, H.	293
KOMAMINE, A.	121	TANAKA, R.	209
KOYAMA, T.	301	TATEOKA, T.	133, 149, 237
MAEDA, M.	179, 219	TAZAKI, K.	61
MASUBUCHI, M.	229	TERASAKA, O.	209
McMILLAN, C.	261	TSUBOI, M.	183
MINAMIKAWA, T.	61	UMEZAKI, I.	285
NAKAMURA, H.	1	USUI, H.	179
NISHI, T.	337	YANAGISHIMA, N.	183
NISHIDA, M.	113	YOSHIDA, S.	61
NISIZAWA, K.	79	YOSHIDA, T.	11
NODA, S.	195	YOSHITAMA, K.	33

